

# Water Quality Webinar – Jan. 29th

Use NOAA Data in the Classroom to Explore Life in an Estuary

## For all educators (grades 6 - 8) interested in Water Quality. Register Today!

Join us for a webinar introducing the National Oceanic and Atmospheric Administration's (NOAA) Data in the Classroom curriculum module, "Monitoring Estuarine Water Quality." Experts on monitoring water quality at NOAA's National Estuarine Research Reserves will teach you the following skills: accessing data to monitor extreme events; generating graphs to use in your classroom; helping your students develop their own questions about life in an estuary; and exploring data sets driven by the questions of actual students. Education coordinators from the research reserves will introduce the lesson plans and demonstrate how the module's unique scaffolding can help students develop skills to access and use online data.



The NOAA Data in the Classroom curriculum helps teachers and students use real scientific data to explore dynamic Earth processes and understand the impact of environmental events on a regional or global scale. Each module features easy-to-use curriculum materials and specially designed websites that enable students to access and use real data.

## Webinar Details

**Thursday, January 29th – 6:30 p.m. Eastern Standard Time, 1:30 p.m. Pacific Standard Time (lasts 90 minutes)**

The webinar will help middle school teachers increase their ability to use the [water quality module](#) in the following ways:

- Understand which types of data are provided by the research reserves' System-Wide Monitoring Program and how data are collected
- [Access and plot water quality data](#) from 28 research reserves across the country to study factors that influence life in an estuary
- Extend student investigations to explore extreme events, using parameters outside those addressed in this module
- Lead students in looking for patterns and changes in water temperature, dissolved oxygen, and salinity when exploring an estuary
- Guide authentic student-driven investigations
- Access tools and curricula to support next-generation science standards as well as science, technology, engineering, and math (STEM) programming

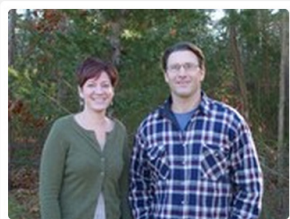
Participants should meet the following course expectations:

1. Have a basic understanding of [water quality parameters](#) within an estuary system and the significance of parameters
2. Review the [teacher's guide](#) outlining the five activities that make-up this water quality module and [associated resources on the website](#)
3. Complete a quick assignment ahead of the webinar (email to follow)
4. Participate in evaluation of the webinar

5. Submit a reflection statement addressing questions (required just for those interested in receiving a Data in the Classroom digital badge)

Education coordinators are available for support during the school year and provide opportunities for field-based professional development at reserves around the country.

### Some of Our Top Instructors:



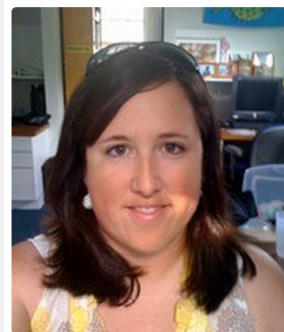
#### Melanie Reding & Gregg Sakowicz

Education Coordinator and Field Researcher/SWMP Technician for the Jacques Cousteau NERR (NJ)



#### Maureen Dewire

Education Coordinator for the Narragansett Bay NERR (RI)



#### Sarah Nuss

Education Coordinator for the Chesapeake Bay NERR (VA)

**Space is limited, so reserve your webinar seat now at**  
**<http://tinyurl.com/kjmdmy5>**



### NOAA Data in the Classroom

*"Changes in water quality conditions have a big impact on organisms living in estuaries. But how is water quality monitored?"*

The [NOAA Data in the Classroom](#) project is an online resource for teachers interested in using real scientific data in their teaching. In this learning environment, students use real data from NOAA's array of satellites, buoys, and data loggers to explore big questions.

✉ [atziri.ibanez@noaa.gov](mailto:atziri.ibanez@noaa.gov)

☎ 301-563-1164

🌐 [datainthe classroom.noaa.gov](http://datainthe classroom.noaa.gov)